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L6    ANSWER 6 OF 21  CAPLUS  COPYRIGHT 2000 ACS        DUPLICATE 2
IN    Hofmann, Joachim; Schmid, Karlheinrich
TI    Dictyocaulus viviparus antigen DV18 for diagnosis of
      lungworm affection and for vaccination
AB    Immunogenic protein DV18 from D. viviparus, methods for isolation of
      DV18-encoding DNA and for prepn. of DV18 with recombinant cells, and use
      of DV18 or DV18 peptides for diagnosis and vaccination against
      lungworm infection are disclosed.  A protein with pI 5.5 and mol.
      wt. 17,500 .+-. 1,500 was isolated from D. viviparus.  Sequences of DV18
      peptides were detd.  Vaccination of male calves with native DV18
protected
      them from challenge with L3 lungworm larvae.  An ELISA procedure
      to detect anti-DV18 antibodies was demonstrated.
AN    1997:500910  CAPLUS
DN    127:160566
TI    Dictyocaulus viviparus antigen DV18 for diagnosis of
      lungworm affection and for vaccination
IN    Hofmann, Joachim; Schmid, Karlheinrich
PA    Hoechst A.-G., Germany
SO    Eur. Pat. Appl., 17 pp.
      CODEN: EPXXDW
DT    Patent
LA    German
FAN.CNT 1
      PATENT NO.         KIND  DATE        APPLICATION NO.  DATE
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PI    EP 785253          A1    19970723    EP 1996-120947   19961227
         R:  DE, ES, FR, GB, GR, IE, IT
      DE 19601754        A1    19970724    DE 1996-19601754 19960119
      AU 9712223         A1    19970724    AU 1997-12223    19970117
      AU 711037          B2    19991007
PRAI  DE 1996-19601754   19960119
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17, 18, 19, 21, 23, 31, 33, 34